

10/546,003

FILE 'HOME' ENTERED AT 15:57:07 ON 29 SEP 2006

=> set abbr on pmer
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prompt (=>).

=> set abbr on perm
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=> set plurals on perm
SET COMMAND COMPLETED

=> file uspatfull caplus japiro
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST 0.21 0.21

FILE 'USPATFULL' ENTERED AT 15:57:46 ON 29 SEP 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 15:57:46 ON 29 SEP 2006
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COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'JAPIO' ENTERED AT 15:57:46 ON 29 SEP 2006
COPYRIGHT (C) 2006 Japanese Patent Office (JPO) - JAPIO

=> e grubbs robert/in
E1 3 GRUBBS MICHAEL/IN
E2 9 GRUBBS MICHAEL R/IN
E3 5 --> GRUBBS ROBERT/IN
E4 2 GRUBBS ROBERT A/IN
E5 1 GRUBBS ROBERT B/IN
E6 2 GRUBBS ROBERT E/IN
E7 4 GRUBBS ROBERT EUGENE/IN
E8 188 GRUBBS ROBERT H/IN
E9 20 GRUBBS ROBERT HOWARD/IN
E10 1 GRUBBS RODNEY U/IN
E11 6 GRUBBS ROY C/IN
E12 1 GRUBBS ROY E/IN

=> s e8
L1 188 "GRUBBS ROBERT H"/IN

=> s (metathesis or ring(1w)open?) (s)hydrogenat?
L2 3473 (METATHESIS OR RING(1W) OPEN?) (S) HYDROGENAT?

=> s l1 and l2
L3 9 L1 AND L2

=> d l3 1-9 ibib abs

L3 ANSWER 1 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2003:335499 USPATFULL
TITLE: Synthesis of A,B-alternating copolymers by olefin
metathesis reactions of cyclic olefins or olefinic
polymers with an acyclic diene
INVENTOR(S): Choi, Tae-Lim, Pasadena, CA, UNITED STATES
Lee, Choon Woo, Pasadena, CA, UNITED STATES
Rutenberg, Isaac M., Pasadena, CA, UNITED STATES
Grubbs, Robert H., South Pasadena, CA, UNITED

STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003236377	A1	20031225
	US 6987154	B2	20060117
APPLICATION INFO.:	US 2003-371195	A1	20030219 (10)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2002-359055P	20020219 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	REED & EBERLE LLP, 800 MENLO AVENUE, SUITE 210, MENLO PARK, CA, 94025		
NUMBER OF CLAIMS:	46		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	2245		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates generally to synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce regularly repeating A,B-alternating olefin polymers. The A,B-alternating polymers are produced by varying reaction conditions and/or reactant proportions and using only two types of olefin metathesis (ring-opening and cross) to provide regularly repeating ABAB . . . etc. polymers via ring-opening metathesis polymerization (ROMP). More particularly, the invention pertains to synthesis of A,B-alternating olefin polymers via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst. Polymers provided herein have utility in a variety of fields, including not only polymer chemistry per se, but also in the pharmaceutical, biomedical, and packaging industries where the structure and properties of polymers need to be tightly controlled.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 2003:335489 USPATFULL
 TITLE: Ring-expansion of cyclic olefins by olefin metathesis reactions with an acyclic diene
 INVENTOR(S): Choi, Tae-Lim, Pasadena, CA, UNITED STATES
 Lee, Choon Woo, La Canada, CA, UNITED STATES
 Kim, Hyunjin M., San Ramon, CA, UNITED STATES
 Grubbs, Robert H., South Pasadena, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003236367	A1	20031225
	US 7034096	B2	20060425
APPLICATION INFO.:	US 2003-371196	A1	20030219 (10)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2002-359055P	20020219 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	REED & EBERLE LLP, 800 MENLO AVENUE, SUITE 210, MENLO PARK, CA, 94025		
NUMBER OF CLAIMS:	47		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2063		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates generally synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce olefin macrocycles by ring expansion, or alternatively. The ring expansion of the cyclic olefin is provided by three types of sequential olefin metathesis (ring-opening, cross, and ring-closing olefin metathesis). More particularly, the invention pertains to synthesis of olefin macrocycles via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst. Macrocycles provided herein have a variety of uses in the pharmaceutical, biomedical, organic synthesis and chemical industries, such as the production of crown ethers that are useful as metal complexing species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2002:160830 USPATFULL

TITLE: Methods for cross-methathesis of terminal olefins

INVENTOR(S): Grubbs, Robert H., South Pasadena, CA, United States

O'Leary, Daniel J., Claremont, CA, United States

Blackwell, Helen E., Somerville, MA, United States

PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6414097 B1 20020702

APPLICATION INFO.: US 2001-919658 20010731 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-491800, filed on 26 Jan 2000, now patented, Pat. No. US 6306988

NUMBER	DATE
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PRIORITY INFORMATION: US 1999-117270P 19990126 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Wu, David W.

ASSISTANT EXAMINER: Harlan, R.

LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 396

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the cross-metathesis of terminal olefins is disclosed. The method describes making disubstituted internal olefin products by contacting a first terminal olefin with another first terminal olefin to form a dimer and then contacting the dimer with a second terminal olefin in the presence of a catalyst having the formula ##STR1##

where M may be Os or Ru, R and R.¹ may be the same or different and may be hydrogen or a substituent group selected from C₁-C₂₀ alkyl, C₂-C₂₀ alkenyl, C₂-C₂₀ alkynyl, aryl, C₁-C₂₀ carboxylate, C₁-C₂₀ alkoxy, C₂-C₂₀ alkenyloxy, C₂-C₂₀ alkynyoxy, aryloxy, C₂-C₂₀ alkoxy carbonyl, C₁-C₂₀ alkylthio, C₁-C₂₀ alkylsulfonyl, and C₁-C₂₀ alkylsulfinyl. X and X.¹ may be the same or different and may be any anionic ligand. L and L.¹ may be the same or different and may be any neutral electron donor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2002:38021 USPATFULL
 TITLE: Metathesis syntheses of pheromones or their components
 INVENTOR(S): Pederson, Richard L., San Gabriel, CA, UNITED STATES
 Grubbs, Robert H., South Pasadena, CA, UNITED
 STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002022741	A1	20020221
	US 6696597	B2	20040224
APPLICATION INFO.:	US 2001-833018	A1	20010410 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-387486, filed on 1 Sep 1999, GRANTED, Pat. No. US 6215019		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2000-US31549	20001117
	US 1998-98792P	19980901 (60)
	US 1999-166543P	19991118 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STOEL RIVES LLP, 900 SW FIFTH AVENUE, SUITE 2600, PORTLAND, OR, 97204	
NUMBER OF CLAIMS:	124	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	40 Drawing Page(s)	
LINE COUNT:	2316	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to metathesis syntheses for insect sex-attractant pheromones or their components, such as E-5-decanyl acetate, the major component of the Peach Twig Borer pheromone; (5R, 6S)-6-acetoxy-5-hexadecanolide, the mosquito oviposition attractant pheromone; E9, Z11-hexadecadienal, the pecan nut casebearer moth pheromone; 9-tetradecenyl formate, an analog of the Diamondback Moth (DBM) pheromone; 11-tetradecenyl acetate, the Omnivorous Leafroller (OLR) pheromone; E-4-tridecenyl acetate, the major component of the Tomato Pinworm (TPW) pheromone; E,E-8,10-dodecadienol, the Codling Moth (CM) pheromone. The syntheses preferably employ a Class I-IV metathesis catalyst, entail few reaction steps, use generally commercially available starting materials, and have relatively short process times. These syntheses produce good yields without the need for expensive or sophisticated equipment. The invention also provides an inexpensive route for producing omega-haloalkenols by cross-metathesizing alpha-omega-diacetoxy alkenes and alpha-omega-dihalides to yield omega-haloalkenols, which are easily converted into omega-haloalkanols under traditional hydrogenation methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 2001:185420 USPATFULL
 TITLE: Methods for cross-metathesis of terminal olefins
 INVENTOR(S): Grubbs, Robert H., South Pasadena, CA, United
 States
 O'Leary, Daniel J., Claremont, CA, United States
 Blackwell, Helen E., Somerville, MA, United States
 PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6306988	B1	20011023
APPLICATION INFO.:	US 2000-491800		20000126 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-117270P	19990126 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Wu, David W.	
ASSISTANT EXAMINER:	Harlan, R.	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop, LLP, Garde, Tanuja V.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	392	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the cross-metathesis of terminal olefins is disclosed. The method describes making disubstituted internal olefin products by contacting a first terminal olefin with another first terminal olefin to form a dimer and then contacting the dimer with a second terminal olefin in the presence of a catalyst having the formula ##STR1##

where M may be Os or Ru, R and R.¹ may be the same or different and may be hydrogen or a substituent group selected from C._{sub.1}-C._{sub.20} alkyl, C._{sub.2}-C._{sub.20} alkenyl, C._{sub.2}-C._{sub.20} alkynyl, aryl, C._{sub.1}-C._{sub.20} carboxylate, C._{sub.1}-C._{sub.20} alkoxy, C._{sub.2}-C._{sub.20} alkenyloxy, C._{sub.2}-C._{sub.20} alkynyloxy, aryloxy, C._{sub.2}-C._{sub.20} alkoxy carbonyl, C._{sub.1}-C._{sub.20} alkylthio, C._{sub.1}-C._{sub.20} alkylsulfonyl, and C._{sub.1}-C._{sub.20} alkylsulfinyl. X and X.¹ may be the same or different and may be any anionic ligand. L and L.¹ may be the same or different and may be any neutral electron donor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:678852 CAPLUS
 DOCUMENT NUMBER: 139:214889
 TITLE: Ring expansion of cyclic olefins by olefin metathesis reactions with an acyclic diene and ring-opening polymerization of the cyclic olefins
 INVENTOR(S): Choi, Tae-Lim; Lee, Choon Woo; Rutenberg, Isaac M.; Kim, Hyunjin M.; Grubbs, Robert H.
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 94 pp.
 CODEN: PIIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003070779	A1	20030828	WO 2003-US5207	20030219
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003216352	A1	20030909	AU 2003-216352	20030219
US 2003236377	A1	20031225	US 2003-371195	20030219
US 6987154	B2	20060117		
US 2003236367	A1	20031225	US 2003-371196	20030219

US 7034096	B2	20060425		
EP 1483300	A1	20041208	EP 2003-742846	20030219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005517774	T2	20050616	JP 2003-569686	20030219
PRIORITY APPLN. INFO.:			US 2002-359055P	P 20020219
			WO 2003-US5207	W 20030219

OTHER SOURCE(S): MARPAT 139:214889

AB This invention relates generally to synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce olefin macrocycles by ring expansion, or alternatively, to produce regularly repeating A,B-alternating olefin polymers. The ring expansion of the cyclic olefin is provided by three types of sequential olefin metathesis (ring-opening, cross, and ring-closing olefin metathesis), and the A,B-alternating polymers are produced by simply varying the reaction conditions and/or reactant proportions and using only two types of olefin metathesis (ring-opening and cross) to provide regularly repeating ABAB...etc. polymers via ring-opening metathesis polymerization (ROMP). More particularly, the invention

pertains to synthesis of olefin macrocycles and A,B-alternating olefin polymers via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst to provide metathesis insertion of the diene monomer into the backbone of the polyolefin. A typical polymer was manufactured by polymerization of 90 mg 1,4-butanediol diacrylate with 65 μ L

of

cyclooctene in the presence of (ImesH₂) (PCy₃)Cl₂Ru:CHPh, and a typical macrocyclic product was manufactured by. Also, the polymers provided herein have utility in a variety of fields, including not only polymer chemical per se, but also in the pharmaceutical, biomedical, and packaging industries where the structure and properties of polymers need to be tightly controlled.

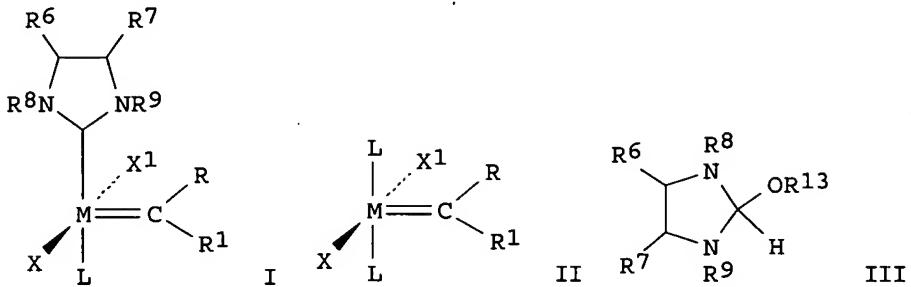
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:842145 CAPLUS
 DOCUMENT NUMBER: 134:29790
 TITLE: Imidazolidine-based metal carbene metathesis catalysts
 INVENTOR(S): Grubbs, Robert H.; Scholl, Matthias
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071554	A2	20001130	WO 2000-US14048	20000522
WO 2000071554	A3	20010705		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2372746	AA	20001130	CA 2000-2372746	20000522
EP 1180108	A2	20020220	EP 2000-937665	20000522
EP 1180108	B1	20030827		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE,
SI, LT, LV, FI, RO
 BR 2000010389 A 20020319 BR 2000-10389 20000522
 JP 2003500412 T2 20030107 JP 2000-619810 20000522
 AT 248182 E 20030915 AT 2000-937665 20000522
 ES 2206248 T3 20040516 ES 2000-937665 20000522
 AU 777357 B2 20041014 AU 2000-52807 20000522
 PRIORITY APPLN. INFO.: US 1999-135493P P 19990524
 US 1999-142853P P 19990707
 WO 2000-US14048 W 20000522

OTHER SOURCE(S): MARPAT 134:29790
GI



AB Metathesis catalysts with an imidazolidine-based ligand have general structure I ($M = Ru, Os$; $X, X_1 = anionic\ ligand$; $L = neutral\ electron\ donor\ ligand$; $R, R_1, R_6-9 = H, C_{1-20}\ alkyl, C_{2-20}\ alkenyl, C_{2-20}\ alkynyl, aryl, C_{1-20}\ carboxylate, C_{1-20}\ alkoxy, C_{2-20}\ alkenyloxy, C_{2-20}\ alkynyl, aryloxy, C_{2-20}\ alkoxy carbonyl, C_{1-20}\ alkylthiol, arylthiol, C_{1-20}\ alkylsulfonyl, C_{1-20}\ alkylsulfinyl$) and are prepared by contacting complex II with imidazolidine compound III ($R_{13} = C_{1-20}\ alkyl, aryl$). The inclusion of an imidazolidine ligand to the previously described ruthenium or osmium catalysts has been found to dramatically improve the properties of these complexes. The inventive catalysts maintains the functional group tolerance of previously described ruthenium complexes while having enhanced metathesis activity that compares favorably to prior art tungsten and molybdenum systems.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:227579 CAPLUS
 DOCUMENT NUMBER: 132:252195
 TITLE: Regio-regular functionalized polymeric packaging material
 INVENTOR(S): Bansleben, Donald A.; Huynh-Tran, Truc-Chi; Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen R.
 PATENT ASSIGNEE(S): Cryovac, Inc., USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018579	A1	20000406	WO 1999-US21826	19990920
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,				

TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6203923 B1 20010320 US 1998-161663 19980929
 CA 2343032 AA 20000406 CA 1999-2343032 19990920
 AU 9961561 A1 20000417 AU 1999-61561 19990920
 AU 748802 B2 20020613
 BR 9914103 A 20010731 BR 1999-14103 19990920
 EP 1124686 A1 20010822 EP 1999-948364 19990920
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2002525397 T2 20020813 JP 2000-572081 19990920
 JP 3327910 B2 20020924
 NZ 510172 A 20030429 NZ 1999-510172 19990920
 US 1998-161663 A 19980929
 WO 1999-US21826 W 19990920
 PRIORITY APPLN. INFO.:

AB The title packaging material comprises at least one layer wherein at least one of the layer comprises a linear, regioregular functionalized hydrocarbon polymer having repeating units represented by the formula: $\text{CH}_2(\text{CR}_2)^a\text{CHXCHY}$ wherein X and Y each independently represents hydrogen, a C1-3 alkyl or a functional group selected from hydroxyl, carboxylic acid, carboxylic acid ester, acetate, amide, nitrile or carbonyl group, provided at least one of the X and Y represents a functional group; each R independently represents hydrogen or a C1-5 alkyl; and "a" represents an integer of 1 to 9. The polymers are prepared, e.g., by ring-opening metathesis polymerization of 1-hydroxycyclooct-4-ene and hydrogenation of the resulting polymer.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:640914 CAPLUS
 DOCUMENT NUMBER: 131:258114
 TITLE: Linear functional regio-regular copolymers and their manufacture
 INVENTOR(S): Bansleben, Donald A.; Huynh-Tran, True-chi Thi;
 Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen R.
 PATENT ASSIGNEE(S): Cryovac, Inc., USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950331	A1	19991007	WO 1999-US6578	19990325
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6153714	A	20001128	US 1998-52079	19980331
CA 2326797	AA	19991007	CA 1999-2326797	19990325
AU 9931157	A1	19991018	AU 1999-31157	19990325
AU 749972	B2	20020704		
BR 9909231	A	20001128	BR 1999-9231	19990325

JP 3264442	B2	20020311	JP 2000-541228	19990325
JP 2002509961	T2	20020402		
EP 1235871	A1	20020904	EP 1999-912894	19990325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 506824	A	20030228	NZ 1999-506824	19990325
TW 460486	B	20011021	TW 1999-88104918	19990717
US 6506860	B1	20030114	US 2000-671163	20000928
PRIORITY APPLN. INFO.:			US 1998-52079	A 19980331

AB The title polymer has a linear hydrocarbon polymer backbone with vicinal functional groups having O and/or N-containing groups, such as hydroxy, carboxylic acid or ester, carbonyl acetate, amide, nitrile and the like, pendent from the polymer backbone chain in a regio-regular manner and is prepared by ring-opening metathesis polymerization of cyclic precursor, optionally followed by hydrogenation of the chain. Hydrogenated poly(5-cyclooctene-trans-1,2-diol) had number-average molecular weight 23,900, polydispersity 2, tensile modulus 180.3 ksi, and toughness 9226 in.-lb/in.³; vs. no value, no value, 337.2, and 888, resp., for conventional EVAL polymer.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 13 9 hit

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
IN Bansleben, Donald A.; Huynh-Tran, True-chi Thi; Blanski, Rusty L.; Hughes,
Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen
P

AB The title polymer has a linear hydrocarbon polymer backbone with vicinal functional groups having O and/or N-containing groups, such as hydroxy, carboxylic acid or ester, carbonyl acetate, amide, nitrile and the like, pendent from the polymer backbone chain in a regio-regular manner and is prepared by ring-opening metathesis polymerization of cyclic precursor, optionally followed by hydrogenation of the chain. Hydrogenated poly(5-cyclooctene-trans-1,2-diol) had number-average mol. weight 23,900, polydispersity 2, tensile modulus 180.3 ksi, and toughness 9226 in.-lb/in.³; vs. no value, no value, 337.2, and 888, resp., for conventional EVAL polymer.

=> d 13 7 hit

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
IN Grubbs, Robert H.; Scholl, Matthias
IT 21622-00-4P, Cyclopent-3-ene-1,1-dicarboxylic acid diethyl ester
25038-78-2P, Dicyclopentadiene homopolymer 25103-85-9P, Cyclopentene
homopolymer 26353-15-1P, cis,cis-Cycloocta-1,5-diene homopolymer
28603-38-5P, cis-Cyclooctene homopolymer 68865-44-1P 69596-51-6P
165549-24-6P 165549-26-8P 215167-65-0P 304022-56-8DP,
1,5-Dimethyl-1,5-cyclooctadiene homopolymer, hydrogenated
304022-56-8P, 1,5-Dimethyl-1,5-cyclooctadiene homopolymer 310397-73-0P
310397-74-1P 310397-75-2P 310397-76-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(metathesis reaction using imidazolidine-based metal carbene
catalysts)

=> d 13 8 hit

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
IN Bansleben, Donald A.; Huynh-Tran, Truc-Chi; Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen

R.

AB The title packaging material comprises at least one layer wherein at least one of the layer comprises a linear, regioregular functionalized hydrocarbon polymer having repeating units represented by the formula: $\text{CH}_2(\text{CR}_2)^a\text{CHXCHY}$ wherein X and Y each independently represents hydrogen, a C1-3 alkyl or a functional group selected from hydroxyl, carboxylic acid, carboxylic acid ester, acetate, amide, nitrile or carbonyl group, provided at least one of the X and Y represents a functional group; each R independently represents hydrogen or a C1-5 alkyl; and "a" represents an integer of 1 to 9. The polymers are prepared, e.g., by ring-opening metathesis polymerization of 1-hydroxycyclooct-4-ene and hydrogenation of the resulting polymer.